

MISSISSIPPI GEOLOGICAL SOCIETY

*e***BULLETIN**

Volume 69

No. 6

February 2021

Charles Henry Williams Jr.

1934 - 2021



CHARLES “CHARLIE” WILLIAMS
1934 - 2021

**PUBLICATION OF THE GEOLOGIC MAP OF THE
MOOREVILLE QUADRANGLE**
Dr. David T. Dockery, RPG, Office of Geology

OIL PATCH QUIZ
Steve Walkinshaw, Vision Exploration



www.missgeo.com



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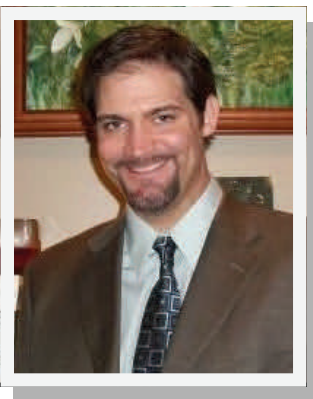
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PRESIDENT'S LETTER

David Snodgrass, MSOGB



MGS Members,

Regardless of which side you lean, Politics stink! Growing up, my father always said if you want to have (and keep) your friends then never discuss politics. I have lived by that sage advice my entire life, until now. For me, being a part of the oil and gas industry, one of our country's most historic industries is a matter of pride for me. The industry supports about 10 million jobs or 6 percent of total U.S. employment. It is a **BIG** industry in this country. So, it has become increasingly difficult to stay quiet, especially when I see our precious oil and gas industry attacked starting day one of a new administration. By signing a slew of executive orders the new administration has essentially waged war on the oil and gas industry in favor of unproven, expensive renewable "green" alternatives. Will the industry be decimated? Hopefully not. But with these policies in place the oil and gas industry as well as its workforce will suffer and unnecessarily so. Higher energy prices at the national level are coming even though at the moment the U.S. is still energy independent. So get ready.

Right now I would like to take some time to say goodbye to Charles "Charlie" Williams. Obit -Madison - Charles "Charlie" Williams, passed away at his home on January 26, 2021 with his family by his side. Charlie was born April 7, 1934 in Tupelo, MS to Charles Henry "Hal" Williams, Sr. and Laura Irene Filgo Williams.

The Williams family later moved to Jackson where Charlie graduated from Central High School in 1952. Charlie attended Millsaps College where he obtained a Bachelor of Science degree in Geology. He was a proud member of the Millsaps chapter of Kappa Alpha Fraternity. In 1956, he attended the University of Texas and obtained his masters degree in Geology. Charlie married the love of his life, Vivian Shortridge in December of 1955.

After graduation, Charlie was employed by Monsanto Chemical and Oil Company but, shortly thereafter, was called into military service where he served in the Army for two years. He spent the majority of his time in Germany with the 11th Armored Cavalry. Vivian joined Charlie in Germany where their first child, Angela, was born.

After Serving in the Army, Charlie resumed his job as a Geologist with Monsanto in New Mexico. His first job was surface mapping in Northern Arizona which included Navajo and Hopi Indian Reservations. His work led the company to participate in one of the earliest oil discoveries in Arizona. Monsanto transferred Charlie to Midland, Texas for four years. From there, he was transferred to Oklahoma City, Oklahoma in 1963. Despite his eight year success with Monsanto, Charlie and Vivian were homesick for Mississippi and returned home where he became Staff Geologist with the Mississippi Geological Survey.



PRESIDENT'S LETTER

David Snodgrass, MSOGB

Charlie authored several geological publications while at the Survey. After three years, he resigned to become Exploration Manager for Champex, and then left Champex to become President of the Mid-Continent Oil and Gas Association, Mississippi Alabama Division. He represented the industry in the legislative sessions of Alabama and Mississippi and Washington D.C. During Charlie's tenure, the industry fared very well legislatively in both states and many bills sponsored by the industry were enacted. In 1986, after 16 years of service, Charlie left Mid-Continent to join Vaughey and Vaughey as General Manager. He managed production in nine states as well as in Canada for the Vaughey families. In 2015, Charlie partnered in the purchase of Vaughey and Vaughey. He retired in 2019.

Charlie was active in many petroleum organizations. He served on the Board of Directors and Executive Committee of the U.S. Oil and Gas Association in Washington D.C. and for the Mississippi- Alabama Division. He served as Convention Chairman for the Gulf Coast Association Geological Societies in 1975. Charlie was also, President of the Capital City Club in 1979. He was a Charter Member of the 100 Club of Madison-Ridgeland where he served as Vice-President and served on the Board of Directors of the 100 Club of Jackson. He was on the Board of Tellus Operating Group and was a charter investor of FNC, Inc. where he was a trusted advisor. His support continued over many years and contributed to the success of the company.

Charlie's great loves were his family, music, traveling and Ole Miss football. He was an avid reader and interested in all things concerning the history of WW I and II. He loved being surrounded by his wife, children, grandchildren and great grandchildren. He made it a priority to share as many experiences with them as possible. He loved visiting the far corners of the globe with his wife, children and grandchildren. When he was in between trips, he could be found on the golf course surrounded by laughter and the comradery of his longtime golf group. Charlie always looked forward to his Tuesday and Friday lunch groups and Board Meeting dinners made up of great friends and great stories. He was known as a Southern Gentleman, a brilliant mind and a captivating storyteller. Friends began to refer to Charlie as "The Governor" or "Gov", a nickname that represents his social ease and the crowds of friends that surrounded him.

Charlie was predeceased by his parents, his daughter, Angela Williams Lang (John), and his sister Lela Carolyn Rosenbaum (Neal).

He is survived by his loving wife of 65 years, Vivian Shortridge Williams, and children Leslie Hines (Todd), Charles Henry 'Hal', III, Erin Chevalier (Steven), son-in-law John Lang (Hannah) ; seven grandchildren, Jilly Lang Escude' (Mark Charles), Preston Lang Miller (Montgomery), Vivian Lang Robinson (Grant), Vaughan Hines Coffin (Robert), Allison Hines Mangialardi (John Finley), Ethan Chevalier and Ava Chevalier, as well as, his three great grandchildren Francie, Mark Charles and Sophie Escude'; his sister's children Cornelius Dutch Rosenbaum (Deborah), Laurie Williams (Bob) and Lee Rosenbaum (Angela) and sister-in-law Bertie Wade. Rest in peace Charlie.

As previously mentioned, due to the ongoing Covid-19 pandemic the MGS will continue postponing our monthly luncheons. However, Bob Herr (SPE) and myself are working out a plan to have ZOOM presentations in place hopefully by March 2021. Please stay tuned.

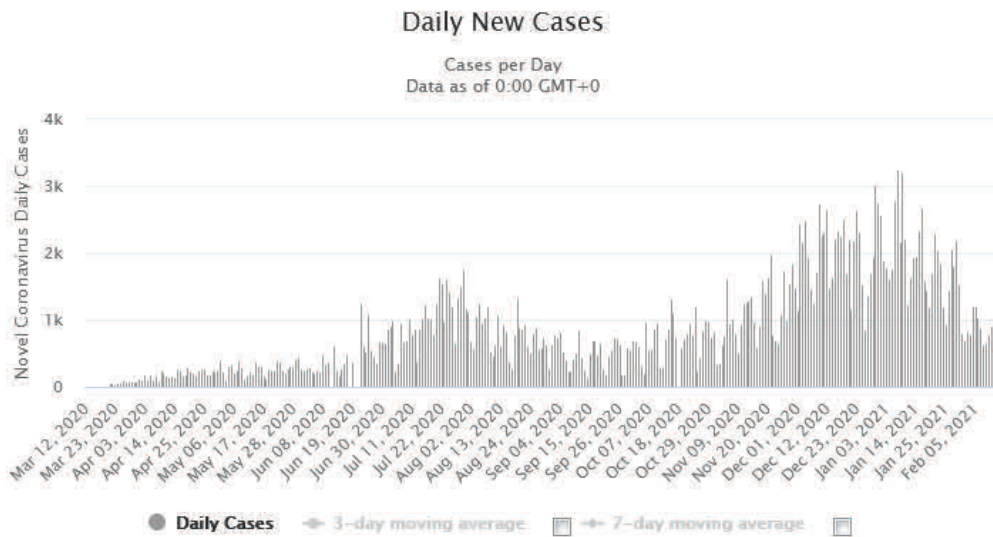
David H. Snodgrass

President, MGS

2020-2021 MGS MEETING SCHEDULE

When	What/Who	Where
Cancelled	Cancelled	Jackson Yacht Club-5:30pm
TBD	Cancelled	River Hills – 11:30am
TBD	Cancelled	River Hills – 11:30am
TBD	Merry Christmas	
January 13, 2021	Rick Aldred Looking at Old Logs in New Ways	Online: 12:30pm
TBD	TBD	River Hills – 11:30am
TBD	TBD	River Hills – 11:30am
TBD	Boland Scholarship Awards	River Hills – 11:30am
TBD	Spring Fling	Jackson Yacht Club– 5:30pm

Daily New Cases in Mississippi



Worldometers

OFFICERS MEETINGS

[illegible]



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

This Mississippi Geological Society along with the Boland Scholarship Fund would like to remind you that we want to honor the most outstanding overall students for the 2020-2021 year.

Each year, the Boland Scholarship awards 1 student from each institution a check that rewards students for their hard work and dedication to the Geosciences and their community.

We look forward to a great year and hope to see you at our monthly meetings.

Best Regards,

Matt Caton
Editor



THE UNIVERSITY OF
SOUTHERN
MISSISSIPPI

MILLSAPS
COLLEGE



IN LOVING MEMORY

Charles Henry Williams Jr.



1934 - 2021



CURRENT PRICES

Crude Oil WTI (NYM \$/bbl) Front Month

[+ WATCHLIST](#)

OPEN

Last Updated: Feb 15, 2021 at 10:10 a.m. EST - Delayed quote

\$ **60.21**

▲ 0.74 1.24%

SETTLEMENT PRICE 02/12/2021

\$59.47



Natural Gas Continuous Contract

[+ WATCHLIST](#)

OPEN

Last Updated: Feb 15, 2021 at 10:11 a.m. EST - Delayed quote

\$ **3.012**

▲ 0.10 3.43%

SETTLEMENT PRICE 02/12/2021

\$2.912



Figure 1



MONTHLY POST

Dr. David T. Dockery III RPG

Geological Significance of the Mooreville Geological Quadrangle Map: The Mooreville Geological Quadrangle Map contains the type locality of the Mooreville Tongue of the Selma Chalk and represents the first time “Tongue” was introduced as a stratigraphic term by Stephenson in 1917 (Stephenson, 1917, Tongue, a new stratigraphic term, with illustrations from the Mississippi Cretaceous: *Washington Academy of Sciences Journal*, v. 7, no. 9, p. 243-250). The type locality is shown below in a picture (Figure 2) taken on a Mississippi State University fieldtrip led by Dr. E.E. Russell. Stephenson’s use of the word tongue is based on the observation that the Mooreville Chalk thins northward and is absent in Tishomingo County, Mississippi, where its bounding units, the Tombigbee Sand below and the Coffee Sand above are in contact with each other. Going the other way (south), the Tupelo Tongue of the Coffee Sand thins to nothing between the Mooreville Formation (Chalk) below and the Demopolis Formation (Chalk) above.



Figure 2 - Dick Martin at the type locality of the Mooreville Formation in a roadside ditch at Mooreville, MS



GEOLOGY POST

ARTICLES, PAPERS or NEWS?

ATTENTION!!!!!! Industry, Professors and Students:

I am adding a dedicated section that includes more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

mcaton13@yahoo.com

Thanks & Regards,

Matt Caton
Editor



MONTHLY QUIZ

Steve Walkinshaw

OIL PATCH QUIZ

Oil patch quiz time. Since the Oligocene, large volumes of sediments have been contributed to this basin by several fluvial systems, including a large river. Its sediment contribution was accentuated by a significant drop in sea level that occurred about 6 Ma. This basin is bounded on its east side by a major fault.

Most reservoirs discovered to date contain gas and condensate. Images "B", "C" and "D" illustrate two gas discoveries drilled as extensions to a known linear trend.

One discovery, drilled ~15 years ago, is upthrown to the major fault ("I"); the other more recent (2018) discovery is downthrown.

Questions...

Part 1: (a) What basin am I referring to? (b) What river?

Part 2: What's the name of the large fault labeled "I"?

Part 3: What's the name of the linear trend extended by these discoveries?

Part 4: What's the name and age of the deeper reservoir ("N")?

Part 5: What is the age of the younger reservoir "M"?

Part 6: What is "J" pointing to?

Part 7: What is the age of the principal source rocks in this basin?

Part 8: What's the name of the recent (2018) discovery well?

Part 9: What does reservoir "O" exhibit in "H"?

Bonus:

Part 10: What field does the 3D line in "E" cross?

Part 11: What is the lithology of the rocks labeled "L"?

Part 12: What happened here ~6 Ma?

Answers at end of Bulletin



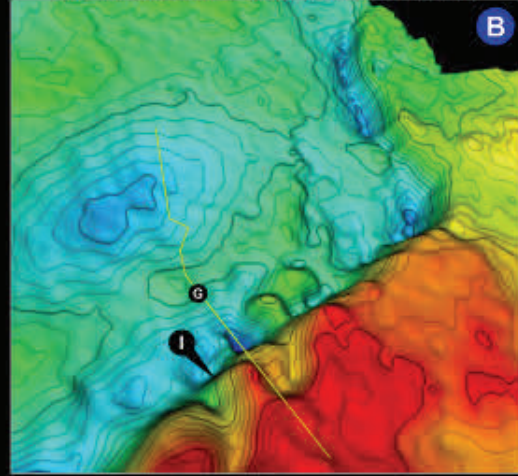
MONTHLY QUIZ

Steve Walkinshaw

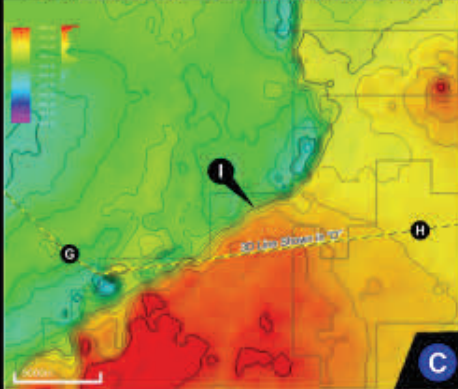
OUTCROP EXAMPLE - ANALOGOUS OLIGOCENE SANDS



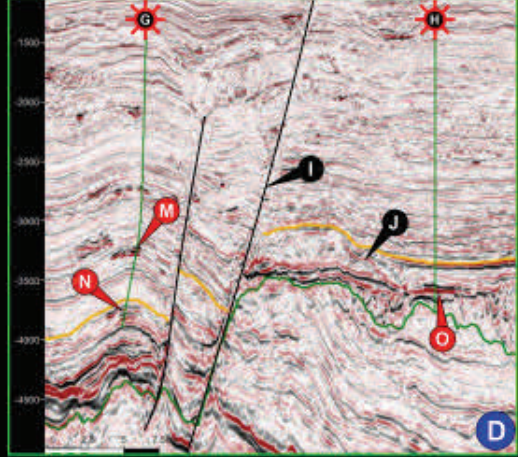
3D TIME STRUCTURE - DEEPER PRODUCING HORIZON



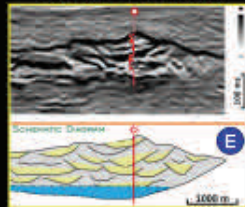
3D TIME STRUCTURE - DEEPER PRODUCING HORIZON



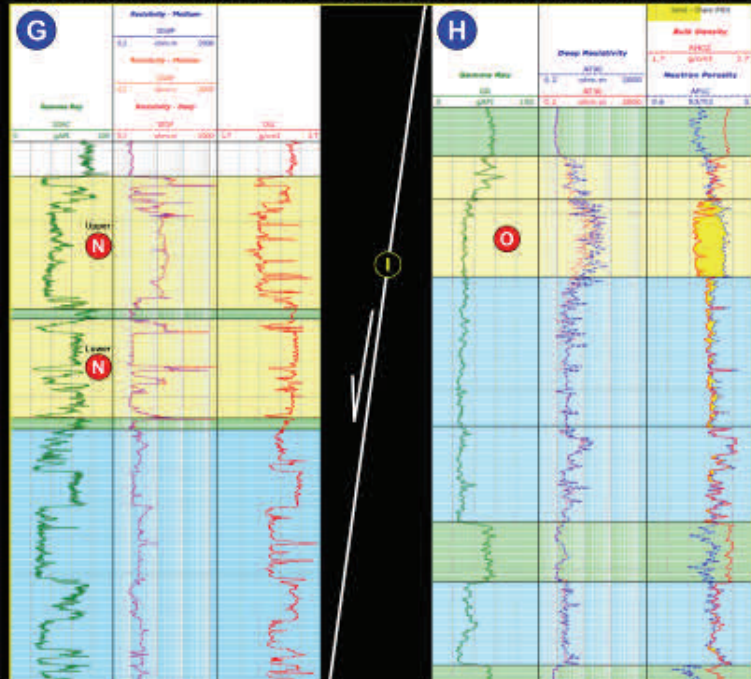
3D ARBITRARY LINE THROUGH UPTHROWN & DOWNTHROWN DISCOVERIES



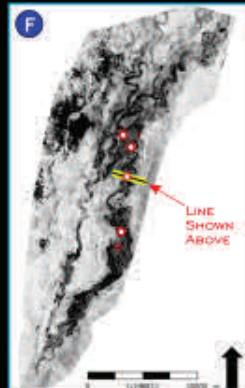
3D LINE - CHANNELS



OPEN-HOLE LOG PRESENTATIONS - UPTHROWN & DOWNTHROWN DISCOVERIES



3D COHERENCE - CHANNELS



FULL CREDIT FOR THE SOURCE OF THESE IMAGES TO BE PROVIDED ONCE THE QUIZ HAS BEEN SOLVED

GEO LINK POST

USGS TAPESTRY OF TIME AND TERRAIN <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

FREE TEXAS TOPO'S <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

FREE NATIONAL TOPO'S [http://store.usgs.gov/b2c_usgs/b2c/start/\(xcm=r3standardpitrex_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

www.geo.org Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersofl0/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

www.ermapper.com They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

www.drillinginfo.com This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terraserver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnf/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



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2020-2021

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1/2 Page Ad (6" x 4")	\$300	\$ _____
1/4 Page Ad (3" x 4")	\$200	\$ _____
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(Note: Please contact Steve Walkinshaw at (601) 607-3227 or mail@visionexploration.com for details concerning placing your ad on the MGS web site.)

Total Remitted \$ _____

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1977-1978	Sarah Childress	2018-2019	Dr. David Dockery
1978-1979	Les Aultman	2019-2020	James O. Sparks
1979-1980	Philip R. Reeves		



MONTHLY QUIZ

Steve Walkinshaw

ANSWERS

Part 1: (a) What basin am I referring to? (b) What river? (a) the Herodotus Basin (b) the Nile River

Part 2: What's the name of the large fault labeled "I"? the Rosetta Fault

Part 3: What's the name of the linear trend extended by these discoveries? the Baltim (Canyon) Trend

Part 4: What's the name and age of the deeper reservoir ("N")? Abu-Mahdi, Messinian (Late Miocene)

Part 5: What is the age of the younger reservoir "M"? Pliocene

Part 6: What is "J" pointing to? the local equivalent of the Baltim Canyon

Part 7: What is the age of the principal source rocks in this basin? Oligocene

Part 8: What's the name of the recent (2018) discovery well? Swan-East-1

Part 9: What does reservoir "O" exhibit in "H"? gas effect, primarily impacting the neutron log

Part 10: What field does the 3D line in "E" cross? Simian Field

Part 11: What is the lithology of the rocks labeled "L"? basalt

Part 12: What happened here ~6 Ma? the onset of the Messinian Salinity Crisis (the physical separation of the Mediterranean from the Atlantic during the Late Miocene)

Here are the credits for / sources of the images shown in the montage.

Image "A": "Depositional History of the West Nile Delta - Upper Oligocene to Upper Pliocene" (Axel Kellner, Hamsa El Khawaga, Gerhard Brink, Stiig Brink-Larsen, Maksoud Hesham, Hesham Abu El Saad, Alaa Atef, Helen Young, and Bruce Finlayson), Search and Discovery Article #30092 (2009)

Images "B", "C", "D", "G" and "H": "New Ideas Unlock Old Plays: Swan-East Recent Gas Discovery, Baltim Canyon Extension, West Delta Deep Marine, Offshore Nile Delta, Egypt" (Mahmoud Hemdan, Ramy Fahmy, Mostafa Monir, and Ramy Eid), Search and Discovery Article #11265 (2019)

Images "E" and "F": "Time-Lapse Prestack Seismic Inversion to Delineate Undrained Reservoirs - Simian Field, Offshore Nile Delta, Egypt" (Wael Salah, Islam A. Mohamed and Abdulrahman A. Mohamed), Search and Discovery Article #20428 (2018)
